

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau

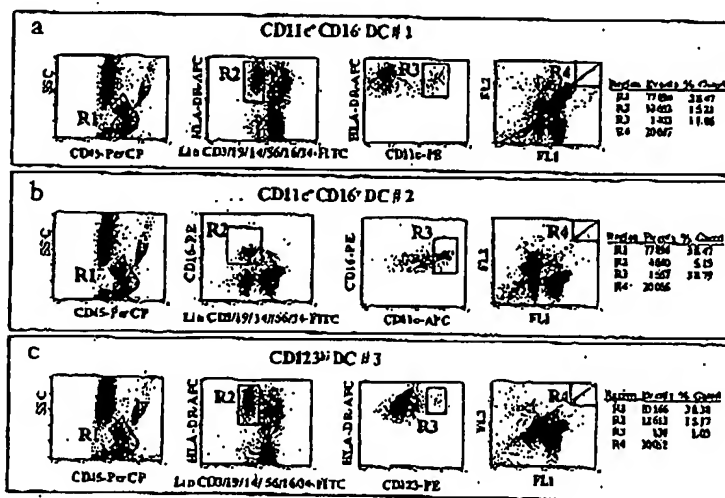


(43) International Publication Date
26 February 2004 (26.02.2004)

PCT

(10) International Publication Number
WO 2004/017051 A1

- (51) International Patent Classification: **G01N 15/10**, 33/536
- (21) International Application Number: **PCT/AU2003/001040**
- (22) International Filing Date: **15 August 2003 (15.08.2003)**
- (25) Filing Language: **English**
- (26) Publication Language: **English**
- (30) Priority Data:
2002950778 **15 August 2002 (15.08.2002)** **AU**
- (71) Applicant (for all designated States except US): **THE CORPORATION OF THE TRUSTEES OF THE ORDER OF THE SISTERS OF MERCY IN QUEENSLAND [AU/AU]; Raymond Terrace, South Brisbane, Queensland 4101 (AU).**
- (72) Inventors; and
(75) Inventors/Applicants (for US only): **HART, Derek [NZ/AU]; 3 Borva Street, Dutton Park, Queensland 4102 (AU). VUCKOVIC, Slavica [NZ/AU]; 43 Gainsborough Avenue, Mackenzie, Queensland 4156 (AU).**
- (54) Title: **A METHOD OF CHARACTERIZING DENDRITIC CELLS**
- (81) Agents: **HUGHES, E. John, L et al.; Davies Collison Cave, 1 Little Collins Street, Melbourne, Victoria 3000 (AU).**
- (81) Designated States (national): **AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.**
- (84) Designated States (regional): **ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).**
- Published:
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



(57) Abstract: A method of characterizing cells in a subclass of dendritic cells or precursors thereof in a biological sample. The method comprising placing the sample in contact with immunointeractive molecules directed to at least one dendritic cell immunogen (e.g. HLA-DR, CE123, CD11c, CD11b/c, BDCA2, BDCA3, BDCA4, CD16, CD83, CD45, CD40, CMRF-44 AND CMRF-56) and at least one non-dendritic cell immunogen (e.g. CD3, CD19, CD14, CD56, CD11b, CD34) and detecting the presence of one or more dendritic cell immunogen-immunointeractive molecule complexes and the absence of one or more non-dendritic cell immunogen-immunointeractive molecule complexes. An analysis of the cells of the subclass of dendritic cells is performed based on the presence and absence of the above complexes. This method may be used in disease diagnosis by comparing the number of cells in the subset of dendritic cells or precursors thereof with the number of the same subset of cells found in an age-matched non-diseased patient.

BEST AVAILABLE COPY

WO 2004/017051 A1